

**Environmental and Safety Designs, Inc.**

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DATE: 2/3/94**TO**Name: Beth BrownCompany: RPM EPA Region IV**FROM**Name: Darrell RichardsonTotal number of pages (including cover sheet): 2**COMMENTS**

Map is being developed, I had to get the disk from King
Engineering to use their coordinates. Will have to you this afternoon.
Darrell



10663507

CARRIER DOWNGRAIENT MONITORING WELL

Phone minutes of a conference call with Craig Wise (EnSafe), Dave Fuehrer (EnSafe), Rodney Wilson (Wilson Well Co.), and Charlie Till (ESD).

Points of interest and agreement with Charlie Till.

Drill Muds:

No Revert, traces may be left in well and samples. Baroid Quik Gel is ok but has some polymers. Best is Pure Gold with 30% solids (10.4 # mud) and no catalyst, or even Aqua Gel. Rodney Wilson has a supplier in Olive Branch, MS.

Bentonite Chips:

Volclay chips ok. They seem to hold together longer before hydration and fluffing occurs.

Conductor Pipe:

We will use 10" steel pipe, welded, not PVC to preclude any problems w/heat and cement grout curing. We can stab the steel conductor into the clay, but we must first pull a clay split spoon sample showing fat clay to insure that there are no sand lenses in the clay. If sand lenses are present then we must grout from the inside out up the annulus and leave a cement shoe in the casing. We can core out the shoe and drill. If the clay is fat and we can stab the conductor, then we will just grout around the outside of the casing.

Sand Pack:

ESD will allow us to float the sand down after we clean-wash out the hole around the well screen. We can use a 1" wash pipe to wash and also check the sand pack depth. Rodney Wilson maintains this is the way he does it on wells of this depth and ESD said it was ok. Chips will go in through a 1.25" tremie via funnel and suction. Can also put the sand in this way if we have any problems.

Development:

The well will be developed in this sequence: 1) pump clean, 2) jet, 3) pump clean. Jetting will mainly help break up the screen material.

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